

# UNITED STAVES DEPARTMENT OF COMMERCE **Patent and Trademark Office**

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2856

Washington, D.C. 20231

APPLICATION NO.   FILING DATE	FIRST NAMED INVENTOR		ATT	ATTORNEY DOCKET NO.	
09/006.999 01/14/98 8	HIFF		C P	M5241460	
MM41/0402		<b>¬</b> [	EXAMINER		
FILLSBURY MADISON & SUTRO INTELLECTUAL PROPERTY GRO		·	TRAN. I		
1100 NEW YORK AVE NW		ſ	ART UNIT	PAPER NUMBER	

9TH EAST TOWER WASHINGTON DC 20005-3918

04/02/99 DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

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	Application No. 09/006,999  Examiner  Thuy Vinh	Applicant(s)	riff et al.				
Office Action Summary	Examiner	_	Group Art Unit				
	Thuy Vinh	Tran	2856				
-The MAILING DATE of this communication appears	on the cover sheet b	eneath the c	orrespondence add	iress			
Period for Response							
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SEMAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE	<u>3</u> MONT	H(S) FROM THE				
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication.</li> <li>If the period for response specified above is less than thirty (30) days, a</li> <li>If NO period for response is specified above, such period shall, by defair Failure to respond within the set or extended period for response will, b</li> </ul>	response within the statutoult, expire SIX (6) MONTHS	ory minimum of t	thirty (30) days will be co	nsidered timely.			
Status							
Responsive to communication(s) filed on	idment 01/19/	99					
☐ This action is FINAL.				-			
<ul> <li>Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935</li> </ul>			the merits is close	ed in			
Disposition of Claims							
✓ Claim(s)			_ is/are pending in the application.				
Of the above claim(s)			_ is/are withdrawn from consideration.				
☐ Claim(s)							
$\bowtie$ Claim(s) $\frac{1}{3}$ $\frac{3}{4}$ , $\frac{6}{8}$	is/are	_ is/are rejected.					
$\not\subseteq$ Claim(s) $\frac{1}{3} - \frac{4}{5} \cdot \frac{6}{8}$ $\not\subseteq$ Claim(s) $\frac{2}{5} \cdot \frac{5}{9} \cdot \frac{9}{1}$			_ is/are objected to.				
☐ Claim(s)							
Application Papers		require	ement.				
☐ See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.						
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.							
☐ The drawing(s) filed on is/are objected to by the Examiner.							
☐ The specification is objected to by the Examiner.							
☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. § 119 (a)-(d)							
<ul> <li>□ Acknowledgment is made of a claim for foreign priority und</li> <li>□ All □ Some* □ None of the CERTIFIED copies of th</li> <li>□ received.</li> </ul>	e priority documents ha	ave been					
<ul> <li>received in Application No. (Series Code/Serial Number</li> <li>received in this national stage application from the Inter</li> </ul>							
*Certified copies not received:		· · · · · · · · · · · · · · · · · · ·	···				
Attachment(s)							
☐ Information Disclosure Statement(s), PTO-1449, Paper No	(s) 🗆 🗆	nterview Sumi	mary, PTO-413				
			e of Informal Patent Application, PTO-152				
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948 ☐ Other							
Office Action Summary							

U. S. Patent and Trademark Office PTO-328 (Rev. 3-97)

Part of Paper No. \_ 8

Serial number: 09/000,999

Art Unit: 2856

Title:

Apparatus for the separation of cystic parasite forms from water

Inventors: Shiff et al.

# **Detailed action:**

# I. Rejections under 35 U.S.C. 102(b)

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that forms the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless-

- 2. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Leu (U.S. Patent No. 5,866,071).

As to claim 1, regarding a centrifuge tube of particulate material [45] see figures 4a, 4b, 4c; column 2, lines 62-65; column 3, lines 4-9, 27-40.

# I. Rejections under 35 U.S.C.103(a)

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained through the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior arts are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negative by the manner in which the invention was made.

Serial number: 09/006,999

Claims 3-4, 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Art Unit: 2856 Borchardt et al. (U.S. Patent No. 5,846,439) in view of Leu (U.S. Patent No. 5,866,071). 2.

As to claims 3, 6-8, Borchardt et al. discloses a method of concentrating oocysts of waterborne parasites including Cryptosporidium from water which comprises a continuous flow centrifuge except for a filtration column of particulate material (see column 3, lines 64-65; column 5, lines 16-18; column 6, lines 1-2). Leu teaches a centrifuge tube wherein some media are put for separation of biological substances (see column 3, lines 4-8 and 27-39; figures 4a, 4b, 4c). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the centrifuge system of Borchardt et al. by adapting a tube column for separating or filtering biological materials as evident by the teachings of Leu since the existence of the filtering media inside the tube helps to filter organisms out with good result.

As to claim 4, neither Borchardt et al. nor Leu teaches the use of sand for filtering particulate material in the fluid. However, it is a well known practice in the art that sand is very commonly used in the field of water purification. Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize sand as the medium inside the filtering tube of Leu which is adapted to the centrifuge system of Borchardt et al. for efficiently filtering micro-organisms out.

Art Unit: 2856

### III. Objections

Claims 2, 5, 9 are objected to as being dependent upon a rejected based claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### IV. Remarks and conclusion

- Applicant's arguments filed on January 19th, 1999 have been fully considered but 1. they are moot in view of the new grounds of rejection.
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy Vinh Tran whose telephone number is (703) 305-0012. The examiner can normally be reached on Mondays through Fridays from 8:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Hezron Williams, can be reached at (703) 305-4705. The fax phone number for this Group is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)

305-4900.

Tran/ab (11

March 28th, 1999

Supervisory Patent Examiner

**Technology Center 2800**